

**CORN, STRIP TILLAGE, IRRIGATED  
SOUTH GEORGIA, 2009**

**ESTIMATED COSTS AND RETURNS**

Expected Yield

185 Bushels

YIELD: YOUR FARM \_\_\_\_\_

<b>Variable Costs:</b>	<b>Unit</b>	<b>Number of Units</b>	<b>\$/Unit</b>	<b>Cost/Acre</b>	<b>\$/Bushels</b>	<b>Your Farm</b>
Seed	Thous.	30.00	\$ 2.81	\$ 84.38	\$ 0.46	_____
Cover Crop Seed	Bushel	1.50	\$ 11.00	\$ 16.50	\$ 0.09	_____
Lime	Tons	0.50	\$ 40.00	\$ 20.00	\$ 0.11	_____
Fertilizer						
Nitrogen	Lbs	225.00	\$ 0.60	\$ 135.00	\$ 0.73	_____
Phosphate (P2O5)	Lbs	90.00	\$ 0.30	\$ 27.00	\$ 0.15	_____
Potash (K2O)	Lbs	125.00	\$ 0.70	\$ 87.50	\$ 0.47	_____
Weed Control	Acre	1.00	\$ 40.11	\$ 40.11	\$ 0.22	_____
Insect Control	Acre	1.00	\$ -	\$ -	\$ -	_____
<i>Machinery: Preharvest*</i>						
Fuel	Gallon	3.05	\$ 2.25	\$ 6.86	\$ 0.04	_____
Repairs & Maintenance	Acre	1.00	\$ 6.04	\$ 6.04	\$ 0.03	_____
<i>Machinery: Harvest</i>						
Fuel	Gallon	2.65	\$ 2.25	\$ 5.96	\$ 0.03	_____
Repairs & Maintenance	Acre	1.00	\$ 3.66	\$ 3.66	\$ 0.02	_____
Irrigation**	Inch	7.00	\$ 8.25	\$ 57.75	\$ 0.31	_____
Labor	Hrs	0.77	\$ 11.00	\$ 8.49	\$ 0.05	_____
Crop Insurance	Acre	1.00	\$ 20.00	\$ 20.00	\$ 0.11	_____
Land Rental	Acre	1.00	\$ -	\$ -	\$ -	_____
Interest on Operating capital	Percent	\$ 259.62	7.50%	\$ 19.47	\$ 0.11	_____
Drying - 8 points	Bushel	203.02	\$ 0.28	\$ 56.85	\$ 0.31	_____
<b>Total Variable Costs</b>				<b>\$ 595.56</b>	<b>\$ 3.22</b>	

**Fixed Costs:**

<i>Machinery: Depreciation, Taxes, Insurance, and Housing</i>						
Preharvest*	Acre	1.00	\$ 16.65	\$ 16.65	\$ 0.09	_____
Harvest	Acre	1.00	\$ 23.75	\$ 23.75	\$ 0.13	_____
General Overhead	% of VC	\$ 595.56	5.00%	\$ 29.78	\$ 0.16	_____
Management	% of VC	\$ 595.56	5.00%	\$ 29.78	\$ 0.16	_____
Irrigation	Acre	1.00	\$ 100.00	\$ 100.00	\$ 0.54	_____
<i>Owned Land Costs; Taxes, Cash Payment, Etc.</i>						
Other _____	Acre	1.00	\$ -	\$ -	\$ -	_____
<b>Total Fixed Costs</b>				<b>\$ 199.96</b>	<b>\$ 1.08</b>	

**TOTAL COSTS AND PROFIT GOAL**

<b>Total Costs Excluding Land</b>	<b>\$ 795.52</b>	<b>\$ 4.30</b>
**** YOUR PROFIT GOAL ****	\$ _____/Bu.	
\$\$-PRICE NEEDED FOR PROFIT-\$\$	\$ _____/Bu.	

\* Rip-strip and plant in one pass. Performing rip, strip and plant as separate operations increases preharvest fuel use by 0.413 gal (\$1.18 per acre) and repairs & maintenance costs by \$0.44 per acre. Fixed costs for preharvest machinery would be increased by \$0.99 per acre.

\*\*Average of diesel and electric irrigation application costs. Electric is estimated to be \$6/application and diesel is estimated to be \$10.50/application at \$2.25/gallon diesel.

**Sensitivity Analysis of CORN, STRIP TILLAGE, IRRIGATED**

NET RETURNS ABOVE VARIABLE COSTS PER ACRE					
Varying Prices and Yield (Bushels)					
Bu/Acre	-25%	-10%	Average	+10%	+25%
	138.75	166.5	185	203.5	231.25
\$3.00	\$ (179.31)	\$ (96.06)	\$ (40.56)	\$ 14.94	\$ 98.19
\$3.25	\$ (144.63)	\$ (54.44)	\$ 5.69	\$ 65.81	\$ 156.00
\$3.50	\$ (109.94)	\$ (12.81)	\$ 51.94	\$ 116.69	\$ 213.81
\$3.75	\$ (75.25)	\$ 28.81	\$ 98.19	\$ 167.56	\$ 271.62
\$4.00	\$ (40.56)	\$ 70.44	\$ 144.44	\$ 218.44	\$ 329.44

**ESTIMATED LABOR AND MACHINERY COSTS PER ACRE**

PREHARVEST OPERATIONS						
Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)
Spin Spreader5 ton with Tractor (120-139 hp) 2WD 130	23.758	1.00	0.04	0.28	0.50	1.42
Disk Harrow32' with Tractor (180-199 hp)-MFWD 190	16.291	1.00	0.06	0.60	1.30	3.78
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.25	0.61
ST Plant-Rigid6R-36 with Tractor (180-199 hp)-MFWD 190	6.873	1.00	0.15	1.42	2.80	8.38
Fert Appl (Liquid)6R-36 with Tractor (120-139 hp)-2WD 130	18.327	1.00	0.05	0.37	0.93	1.84
Spray (Broadcast)60' with Tractor (120-139 hp)-2WD 130	35.455	1.00	0.03	0.19	0.25	0.61
<b>Total Preharvest Fuel, Repairs, Fixed Costs, &amp; Labor</b>			<b>0.360</b>	<b>3.05</b>	<b>\$ 6.04</b>	<b>\$ 16.65</b>

HARVEST OPERATIONS						
Operation	Acres/Hour	Number Times Over	Labor Use (Hr.)	Fuel Use (Gal./Ac)	Machinery Repairs (\$/Ac)	Fixed Costs (\$/Ac)
Header - Corn6R 36" with Combine (200-249 hp)-240hp	6.109	1.000	0.164	2.022	\$ 3.06	\$ 21.20
Corn Grain Cart 8R36500 bu with Tractor (120-139 hp)-2WD 130	10.642	1.000	0.094	0.629	\$ 0.60	\$ 2.55
<b>Total Harvest Fuel, Repairs, Fixed Costs, and Labor</b>			<b>0.258</b>	<b>\$ 2.65</b>	<b>\$ 3.66</b>	<b>\$ 23.75</b>

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